AMSAT News Service Weekly Bulletins
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AMSAT NEWS SERVICE
ANS-269

ANS is a free, weekly, news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org

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SB SAT @ AMSAT $ANS-269.01
Exciting Symposium Papers Published for 2010

AMSAT News Service Bulletin 269.01
  From AMSAT HQ SILVER SPRING, MD.
September 26, 2010
To All RADIO AMATEURS
BID: $ANS-269.01

The AMSAT 2010 Space Symposium and Annual Meeting will be held on Friday, October 8 through Sunday, October 10. This year we have selected the Chicago/Elk Grove Holiday Inn which is near O'Hare Airport for the event.

On-line registration for the Symposium continues on-line at the AMSAT Store site:
http://www.amsat-na.com/store/SymposiumReg.php

The registration fee is $45.00 from now through 5 October. Online registration closes 5 October at Midnight. Registration at the door will be $50.00

The 2010 Symposium Proceedings book has been sent to the print shop with the exciting papers presented here. Also, the speaker schedule will include topics with late breaking news and photos as ARISSat-1 completes its assembly and test phase prior to shipment to NASA and then on to Russia.

This is what you'll find in the 2010 Proceedings:

AMSAT's Opportunities in Education

  ARISS Education
   Rosalie White K1STO

  University of Louisiana Satellite Program
   Nick Pugh K5QXJ

  Education Paradigm Shift for AMSAT to Support
  Subsidized Launch Opportunities
   Mark Spencer WA8SME

  AMATEUR RADIO on the ISS - Operations Update - 2009-2010
   Keith Pugh W5IU

AMSAT's Satellites

  AO-51 Battery Capacity and Spin Trends
   Mark Hammond N8MH & Colin Hurst VK5HI

  ARISSat-1 Overview
   Tony Monteiro AA2TX

  ARISSat-1 Power System
   Tony Monteiro AA2TX

  Software Radio Technology on ARISSat-1
   Tony Montiero AA2TX

  ARISSatTLM - A Software Demodulator and Telemetry Display
  Program for the ARISSat-1 Satellite
   Douglas Quagliana KA2UPW

  AMSAT and ITAR: Lessons Learned
   Barry Baines WD4ASW

  AMSAT-FOX Preview
   Tony Monteiro AA2TX

  BPSK-1000 format for ARISSat-1
   Phil Karn KA9Q

  NextGen CubeSat Proposal - Evolutionary Leveraging of
  Assets and Opportunities
   Alex Harvilchuck N3NP

  NextGen CubeSat Student Report
   Alex Harvilchuck N3NP

Satellite and Earth Station Technology

  HamTV Experiment on-board ISS
   Fabio Azzarello IW8QKU E. D'Andria I□ELE,
   T. Giagnacovo IZ□LTG, P. Tognolatti I□KPT

  A lightweight 20 foot stressed dish for 1296 MHz EME
   Marc Franco N2UO

  Characteristics of simulated data multicasts transmitted
  over K3IO's proposed GEO-Eagle communications platform
   Paul D. Wiedemeier KE5LKY

  Psat and the APRS Space Network
   Bob Bruninga WB4APR

  100 Watt VHF/UHF Amplifier Design and Construction
   Stephen Turner K3HPA

Outreach: Getting the AMSAT Word Out

  How to Work the FM Ham Satellites With Your Handheld Radio
   Clint Bradford K6LCS

  Getting the AMSAT Word Out
   JoAnne Maenpaa K9JKM

  Successful Hamfest Satellite Demonstrations
   Keith Pugh W5IU

[ANS thanks the 2010 Symposium Committee for the above information]

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SB SAT @ AMSAT $ANS-269.02
Symposium Weekend Finale - Tour Fermilab

AMSAT News Service Bulletin 269.02
  From AMSAT HQ SILVER SPRING, MD.
September 26, 2010
To All RADIO AMATEURS
BID: $ANS-269.02

There will be an organized four-hour tour of the Fermilab National Accelerator Laboratory on Sunday starting at noon.

If you do not plan to rent a car while in Chicago; the Hosting Committee has rented a bus and will provide transportation from the Hotel to Fermilab, then to O'Hare and back to the Hotel on Sunday for the tour.

The cost of the bus is $25 per seat and it will provide transportation to Fermilab and return according to the following schedule:

11:00 AM Leave the Holiday Inn Elk Grove Village
12 Noon   Arrive at Fermilab
3:30 PM   Depart Fermilab
4:15 PM   Arrive at O'hare Airport
5:00 PM   Arrive back at the Holiday Inn

There will be room on the bus to bring your luggage for those who will be departing for the airport directly after the Fermilab tour.

Please email Kermit Carlson (W9XA@yahoo.com) if you would like to attend the tour and please note if you plan to use the bus transportation.

[ANS thanks the 2010 Symposium Committee for the above information]

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SB SAT @ AMSAT $ANS-269.03
Resignation of AMSAT Board of Directors Member

AMSAT News Service Bulletin 269.03
  From AMSAT HQ SILVER SPRING, MD.
September 26, 2010
To All RADIO AMATEURS
BID: $ANS-269.03

AMSAT BOD member Bill Ress, N6GHZ, has informed the President of AMSAT and the AMSAT Board of Directors of his resignation as a Board Member effective September 20, 2010. In his notification,

Bill noted, "My business demands, currently and into the foreseeable future, are leaving me with very little extra time (and energy) to properly serve as a member of the AMSAT Board." In his notification, Bill observed that he is seeing a 'spike' in his business that requires his full attention.

AMSAT President Barry Baines, WD4ASW received Bill's resignation with regret, noting Bill's significant contributions to AMSAT as a Board Member. Barry observed, "As a member of the Board of Directors over the past two years, Bill pushed AMSAT to establish realistic and achievable goals for maintaining amateur radio in space. As chairman of the Engineering Task Force, Bill led a concerted effort to develop a space strategy that was embraced by the AMSAT Board of Directors and resulted in the decision to proceed with Project Fox. Further, Bill helped to develop the strategy that AMSAT followed in dealing with ITAR (International Traffic in Arms Regulations)-related issues. We wish Bill success in his business endeavors."

In accordance with Article II, Section 7E of the AMSAT Bylaws, Tony Monteiro, AA2TX as First Alternate will immediately assume the position of Director until the next Board election in 2011. Tony also serves as AMSAT's Vice President-Engineering.

Alan Biddle
WA4SCA
AMSAT Corporate Secretary

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SB SAT @ AMSAT $ANS-269.04
UT1FG/MM Satellite Operation

AMSAT News Service Bulletin 269.04
  From AMSAT HQ SILVER SPRING, MD.
September 26, 2010
To All RADIO AMATEURS
BID: $ANS-269.04

UT1FG/MM - Capt.Yuri Bodrov will be QRV on board MV "Mottler" again from "wet squares" via all satellites FM/SSB/CW from 5 October 2010 until March 2011.

First voyage will be from Baltic Sea/Western Europe to Paranagua/Brasil
.

[ANS thanks Yuri, UT1FG, for the above information]

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SB SAT @ AMSAT $ANS-269.05
NASA Selects AubieSat-1 to Launch on Rocket

AMSAT News Service Bulletin 269.05
  From AMSAT HQ SILVER SPRING, MD.
September 26, 2010
To All RADIO AMATEURS
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NASA selected AubieSat-1, a small satellite built by Auburn University students, to be launched on board a NASA rocket.

"We are now much closer to putting Auburn University on the map of

student designed and built satellites," says Professor J-M Wersinger, Physics. "We are proud and honored to have been selected by NASA."

AubieSat-1 is participating in the CubeSat Launch Initiative. The pilot project seeks to demonstrate viable launch opportunities for CubeSat payloads during 2011 and 2012 as auxiliary payloads on planned NASA missions, as explained by Jason C. Crusan, chief technologist for Space Operations at NASA.

Long-time AMSAT member John Klingelhoeffer, WB4LNM, is a technical advisor to the Auburn satellite program. John, who retired from the satellite operator Intelsat, has been assisting the students with system and RF design topics for several years.

AubieSat-1 is an aluminum-alloy cube with 4-inch sides weighing about 2.2 pounds. It is custom built by Auburn University students The data collected by the satellite will be transmitted to the ground station in the Physics Department for analysis. The science mission is to measure
gamma rays produced by high-altitude thunderstorms. In fall 2010 and spring 2011, AubieSat-1 will be tested at the NASA Kennedy Space Center for launch

[ANS thanks John, WB4LNM, and COSAM Covalence E-News for the above information]

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SB SAT @ AMSAT $ANS-269.06
ARISS Status - 20 September 2010

AMSAT News Service Bulletin 269.06
  From AMSAT HQ SILVER SPRING, MD.
September 26, 2010
To All RADIO AMATEURS
BID: $ANS-269.06

1. Upcoming School Contact

Windsor Central School District and the Owego-Apalachin School District in New York have been scheduled for an Amateur Radio on the International
Space Station (ARISS) contact on Wednesday, September 22 at 14:21 UTC. The school districts have planned an education program with the area's Kopernik Observatory and Science Center which includes topics such as space, radio communication, satellites and rocketry. The program is planned for thirty-six middle school and high school students from each school district. Students have been chosen through a competition process

at each grade level. The final outcome of this project will be the pur-chase of amateur radio equipment for each school and the formation of amateur radio clubs.

2. Astronaut Shannon Walker Radios Australian Students

On Tuesday, September 14, high school students from Perth and Western Australia gathered at Curtin University of Technology to participate in an Amateur Radio on the International Space Station (ARISS) contact with astronaut Shannon Walker, KD5DXB on the ISS. The connection was provided by telebridge station LU8YY in Argentina. Walker answered 16 space related questions prepared for her by the students and shared a few words with her husband, Australian astronaut Andy Thomas, who was in Perth to give a presentation on space exploration.

3. Utah Scouts Celebrate Centennial with ARISS Contact

On-orbit astronaut Doug Wheelock, KF5BOC conducted an Amateur Radio on the International Space Station (ARISS) contact with scouts from the Utah National Parks Council, Sector 7 in St. George, Utah on Saturday, September 18. The youth celebrated the 100th anniversary of scouting with a centennial jamboree and many completed the require-ments for the Space Exploration and Radio merit badges.

4. MAI-75 Experiment Activated

The Russian ISS crew members activated the MAI-75 (Moscow Aviation Institute) experiment on Tuesday and Wednesday, September 14 - 15. The system operated Space Cam in slide show mode. Among those who captured Slow Scan Television (SSTV) images transmitted by the crew were ground stations in Asia, Europe and Africa. For more information, see: http://ariss-sstv.blogspot.com/
Images have been archived here: http://www.amsat.org/amsat/ariss/SSTV/

5. Astronaut Training Status

ESA astronaut Paolo Nespoli, IZ0JPA participated in a simulated ARISS contact with students from Scuola Media Statale "E.Galice," Civitavec-chia, Rome, Italy on Tuesday, September 14. The training session was a terrestrial-based amateur radio contact using ARISS equivalent equip-ment. Nespoli is slated to fly withExpedition 26 in November 2010.

6. Video of ARISS - Norwegian Museum Contact

The Norwegian Museum of Science, Technology and Medicine in Oslo, Norway experienced an ARISS contact on September 11. A webcast presentation of the contact is now available.
See: http://www.tekniskmuseum.no/film/frontpage

[ANS thanks Carol, KB3LKI, for the above information]

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In addition to regular membership, AMSAT offers membership in the President's
Club. Members of the President's Club, as sustaining donors to AMSAT Project
Funds, will be eligible to receive additional benefits. Application forms
are
available from the AMSAT Office.

73,
This week's ANS Editor,
Lee McLamb, KU4OS